



LEDI® REVERSO 10

Indoor / Double face

Professional LED clock, robust and stylish combining the best of the technology for an easy installation and operation.



Time setting

The professional LEDI® clocks can display the same time information, synchronized by a master clock or a time server. On standalone and pulse version, the time setting is manual. Display date and time alternately

Internal time base

The LEDI® clock has its own temperature compensated TCXO time base which allows an accuracy about 0.1 sec / day between 0° to 40°C in case of synchronization loss.

Security

Backup of time information in case of mains absence, by lithium battery: 10 years.

Specifications

Power supply (following version)	230VAC 50/60Hz 115VAC 50/60Hz Low voltage 12, 24 or 48 VDC NTP Version: PoE (Power over Ethernet)
Certifications	CE, EN 62368, EN 55032, EN 55035, ROHS
Maximum consumption	16.54 VA
IP	30
MTBF	56 225 h
MTTR	Display: 5 min CPU: 5 min Power supply: 5 min
Weight	2.2 – 2.6kg
Dimension	500x210x99 mm (LxHxD) Bracket: 150 mm
Digit height	Hour/minute: 110 mm
Maximal distance of legibility	Up to 60 meters
Operating temperature	-20° to +50°C
Electrical equipment classification	⚡ Class 1 (in 115 or 230 VAC) ⚡ Class 3 (in 12, 24, 48 VDC or PoE)

Key features

- Perfectly silent, direct and accurate reading of time.
- SMD bi-colour LED technology allows to change the display colour in red, green or yellow (optional white or blue)
- The patented technology of the light guide provides a perfect regularity of the brightness and viewing angle at 160 °
- The front face of the LEDI® is coated with an antiglare and anti-scratch film giving an extraordinary 60000 : 1 level of contrast.
- A protection against over-voltage and industrial interference via EMC filter
- An easy "plug and play" installation
- An anodized aluminium case
- Double face IP30 on bracket
- Its participation in the sustainable development life span over 20 years
- 2 years warranty
- Up to 10 brightness levels for optimal viewing
- Remote and batch configuration via the optional "remote configuration" software
- Selection of colours (independently between wave and numbers) and brightness
- Behaviour of central dots (fixed, blinking...)

NTP Version

Advanced version (option K)

- Synchronisation of up to 4 NTPv4 servers and setting of advanced NTP options (poll rate / burst / preference order)
- Time zone selection and automatic summer/winter time change
- Supervision by SNMP v1, V2c, v3, SYSLOG, Consultation of event logs
- Configurations accessible via http and/or https
- Possibility of changing the display colour according to events (e.g. a loss of synchronisation changes the display colour to red)
- IPv4 / IPv6 protocoles
- 12h or 24h Mmode
- Stopwatch/timer: advanced options fully configurable and programmable (start time, end time, colour change...), control and configuration via web page, GTCHRONO or SNMP
- Sensor*: Option to manage up to 3 different SNMP sensors (Temperature, Hygrometry, ...)
*Within the limits of the display

Standard Version (option N or W)

- Synchronisation of up to 3 NTP servers
- Time zone selection and automatic summer/winter time change
- Supervision by SNMP v1, v2.c
- Configurations accessible via http and/or https
- IPv4 / IPv6 protocoles
- Stopwatch/timer: simple option (triggering of a count sequence or countdown by button via web page or SNMP)
- Sensor: option to manage an SNMP Temperature or Humidity sensor

Display / LED characteristics

Single row LED display, SMD technology, reading angle: 160°

bi-colour (red, green) LED		Monochrome LED
• Red: 245 mcd	• Yellow	• Blue: 625 mcd
• Green: 780 mcd		• White: 625 mcd

Synchronisation inputs

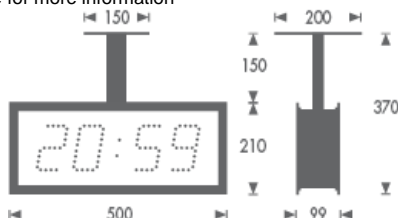
- TCXO Quartz Standalone
- DCF77 (EUROPE) with antenna or DCF24V with pair cable
- GPS
- Reverse parallel minute receiver 24V or 1/2 reverse minute series
- AFNOR NFS 87500 or IIRIG B (to specify at purchase order)
- ASCII RS232, ASCII RS422/485
- Standard NTP (Option N) or advanced NTP (Option K) Ethernet 10/100BaseT
- Standard NTP Wi-Fi (IEEE 802.11 a/b/g/n standards 2.4 Ghz)
- SMPTE

Storage conditions

Conditions	Temperature	Hygrometry	Maximum cumulative duration
Extreme	-20°C to 10°C	10 to 85% HR	48h
Extreme	40°C to 70°C	10 to 85% HR	48h
Normal	10°C to 40°C	10 to 85% HR	6 months

The product must be switched on for 4 hours every 3 months to maintain its characteristics*.

*see user guide for more information



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		ITEM CODE					
		ND390					
VERSION		↑	↑	↑	↑	↑	↑
Standalone: radio-synchronisable quartz time base 3.6864 MHz Holdover +/- 0.1 sec/24 h (between 0 and 40°C)	<input type="checkbox"/>	2					
DCF Radiosynchronisation. DCF Antenna + 4m cable	<input type="checkbox"/>	D					
⁽¹⁾ DCF 24Vdc Synchronisation (<i>Synchro in telecom pair cable</i>)	<input type="checkbox"/>	P					
GPS Radiosynchronisation. GPS Antenna + 10m cable	<input type="checkbox"/>	G					
6mA/24V reversed parallel minute pulses receiver clock	<input type="checkbox"/>	3					
Serial reversed 1/2 minute pulses receiver clock	<input type="checkbox"/>	5					
Consumption 1.25V. 60 to 120mA. 39 ohms shunt	<input type="checkbox"/>						
⁽²⁾ AFNOR NFS 87500 Receiver	<input type="checkbox"/>	8					
SMPTE-EBU Receiver	<input type="checkbox"/>	7					
ASCII RS 232 Receiver	<input type="checkbox"/>	B					
ASCII 422/485 Receiver	<input type="checkbox"/>	Q					
ADVANCED NTP Synchronisation (Ethernet RJ45 10/100)	<input type="checkbox"/>	K					
STANDARD NTP Synchronisation (Ethernet RJ45 10/100)	<input type="checkbox"/>	N					
STANDARD NTP Synchronisation (Wi-Fi IEEE 802.11 a/b/g/n standard 2.4 Ghz)	<input type="checkbox"/>	W					
⁽¹⁾ Always combine this version with 230VAC 50/60Hz power supply only							
⁽²⁾ If IRIG.B. version, please specify as a note on your order							
PROGRAMMABLE LED							
Selectable colour, red, yellow, green	<input type="checkbox"/>	1					
Selectable colour white or blue	<input type="checkbox"/>	5					
MOUNTING							
Please refer to the brackets technical sheet	<input type="checkbox"/>				P		
COLOUR CASING							
Grey anodised aluminium	<input type="checkbox"/>					7	
Black anodised aluminium	<input type="checkbox"/>					0	
POWER SUPPLY							
Standard: 230VAC 50/60Hz	<input type="checkbox"/>						0
115VAC 50/60Hz (<i>Excluding version P</i>)	<input type="checkbox"/>						1
Power over Ethernet (PoE - IEEE802.3af) (<i>version N or K</i>)	<input type="checkbox"/>						7
⁽³⁾ Low voltage power supply: 12 VDC (<i>Excluding versions K, N or W</i>)	<input type="checkbox"/>						2
⁽³⁾ Low voltage power supply: 24 VDC (<i>Excluding versions K, N or W</i>)	<input type="checkbox"/>						4
⁽³⁾ Low voltage power supply: 48 VDC (<i>Excluding versions K, N or W</i>)	<input type="checkbox"/>						6
OPTIONS							
⁽⁴⁾ Timer function via web interface (<i>versions K, N or W</i>)	<input type="checkbox"/>						F
⁽³⁾ Timer: touch housing control block (flush and wall mount version) + 4 meters of cable - up/down	<input type="checkbox"/>						I
⁽³⁾ Timer : touch housing control block (flush and wall mount version) + 15 meters of cable - up/down	<input type="checkbox"/>						C
⁽³⁾ Temperature probe(accuracy ± 0.5°C) + 5 m cable : temperature and hour displayed alternately	<input type="checkbox"/>						T
⁽⁵⁾ IP Temperature sensor module (<i>versions K, N or W</i>)	<input type="checkbox"/>						G
⁽³⁾ Timer output or stopwatch contact	<input type="checkbox"/>						E
⁽³⁾ ASCII RS232 output (<i>not to be combined with Ascii input version</i>)	<input type="checkbox"/>						A
or:	<input type="checkbox"/>						R
⁽³⁾ ASCII RS422-485 output (<i>not to be combined with Ascii input version</i>)	<input type="checkbox"/>						U
Tropicalization	<input type="checkbox"/>						

⁽³⁾ Option not available in NTP versions (Ethernet or Wi-Fi)

⁽⁴⁾ CDG035 – GT Chrono compatible: Only for NTP Advanced Ethernet version (option K), management of the triggering of groups of clocks simultaneously and synchronised, by Windows software.

⁽⁵⁾ Option for NTP versions (Ethernet or Wi-Fi) only, and compatible with a Temperature Sensor via IP station to be ordered separately, see module 92261